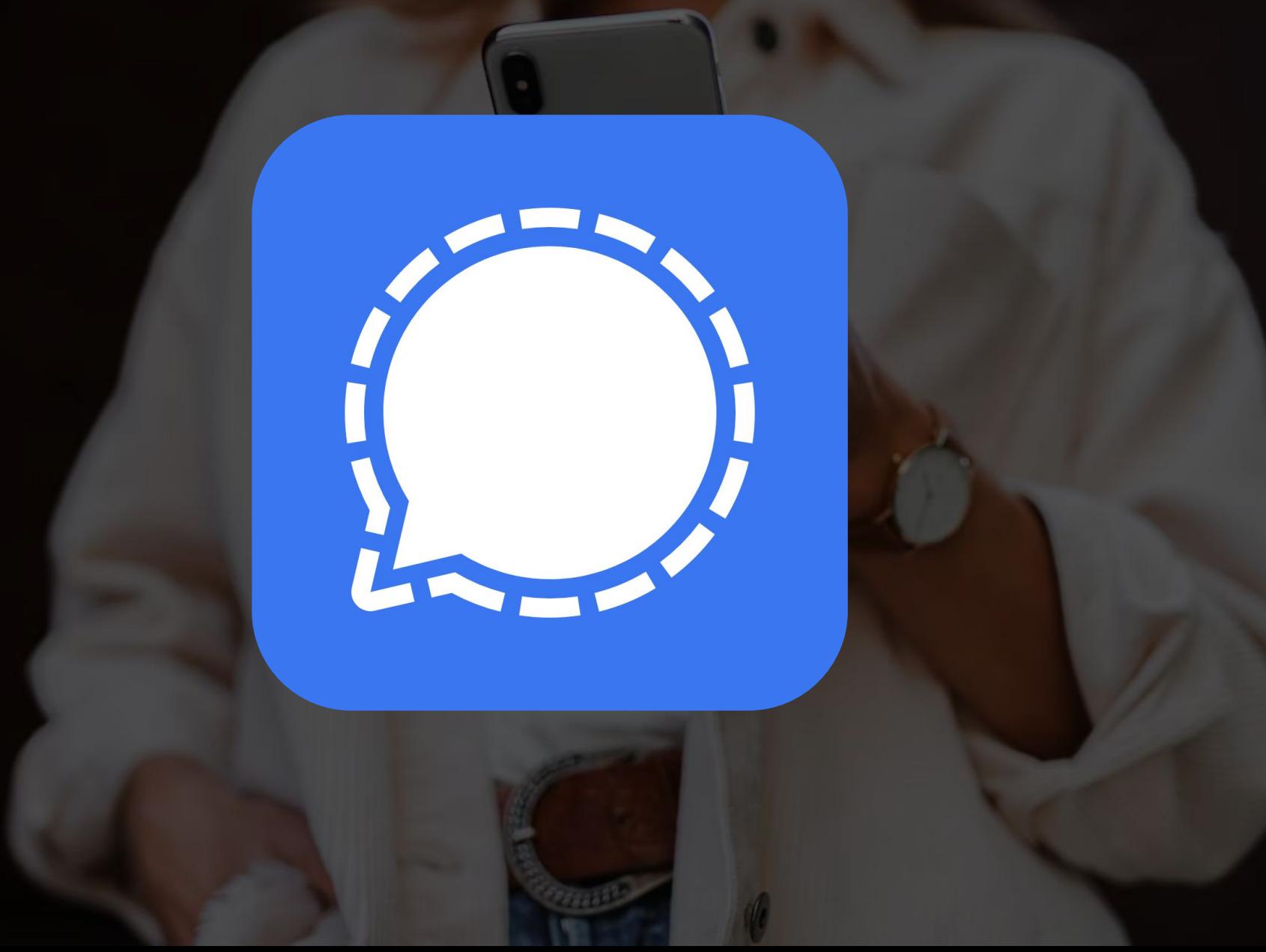


SA3 Final Project

Milestone 1: MVP

A photograph of Mark Zuckerberg, founder of Facebook, standing on a stage against a dark blue background. He is wearing a dark grey long-sleeved shirt and dark trousers. His hands are raised in front of him, palms facing up, as if he is gesturing while speaking. He has a slight smile and is looking towards his right. Overlaid on the center of the image is the text "Your data" in a large, bold, white sans-serif font.

Your
data



Q: How does account self-destruction work?

If you stop using Telegram and don't come online for at least six months, **your account will be deleted.**

HandShake

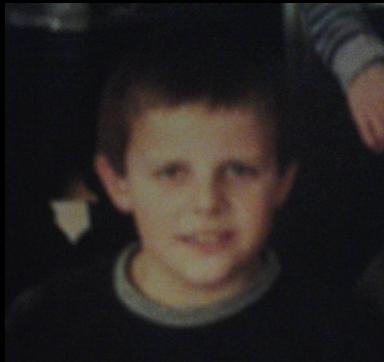
developed with ❤ by the OGs @ USI



d'Atri Sofia



De Filippo Loredana



Dalle Rive Michele



Jeferson



Tafta Nicolò

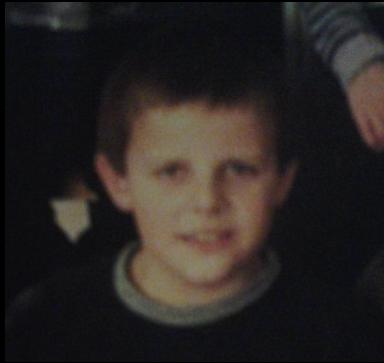


developed with ❤ by the OGs @ USI



@cosmcif

@DonnaDona



@micheledallerive

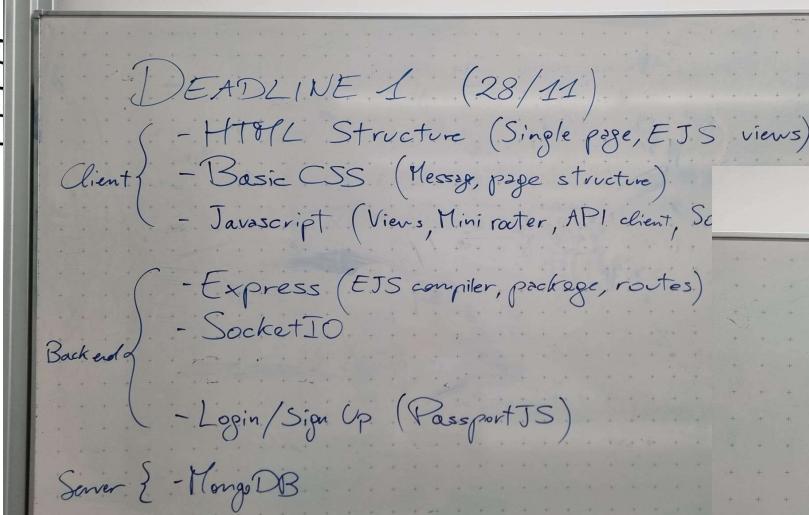
@JekxDevil

@Hwid2121

the plan



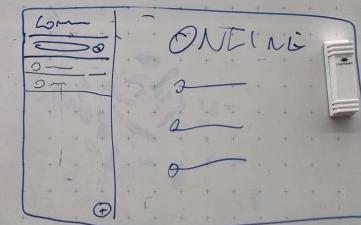
10000



packet + Routing + File

Features (future): → ~~never~~
maybe

- Aliases for people
- Login / Sgroup



Views

chat_list

single.chat

LOREN (comp)

chat (comp)

Empty.chat

active.chat

instruction

ONLINE USERS

Single-text

TICK

online-user

Zain Shabir

```
tElementById("container");
```

is useful when changing from the login page to the main page.

Structure of the main page

main page is divided in two columns.

Goals for this milestone

Goals for this milestone

Organize our team, our repo and our project

Goals for this milestone

Organize our team, our repo and our project

Plan the development for a MVP

Goals for this milestone

Organize our team, our repo and our project

Plan the development for a MVP

Layout / views ready

Goals for this milestone

Organize our team, our repo and our project

Plan the development for a MVP

Layout / views ready

Set up the database

Goals for this milestone

Organize our team, our repo and our project

Plan the development for a MVP

Layout / views ready

Set up the database

Set up the routes

Goals for this milestone

Organize our team, our repo and our project

Plan the development for a MVP

Layout / views ready

Set up the database

Set up the routes

Set up the authentication system

Goals for this milestone

Organize our team, our repo and our project

Plan the development for a MVP

Layout / views ready

Set up the database

Set up the routes

Set up the authentication system

Choose the roles

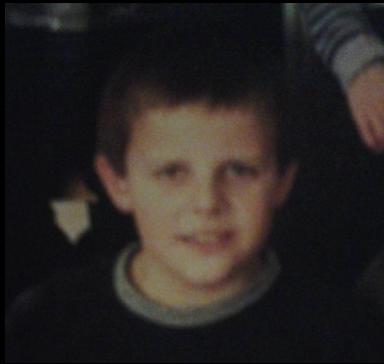
Roles



Front end / layout



Routes



Authentication /
project manager



Database / back
end wizard

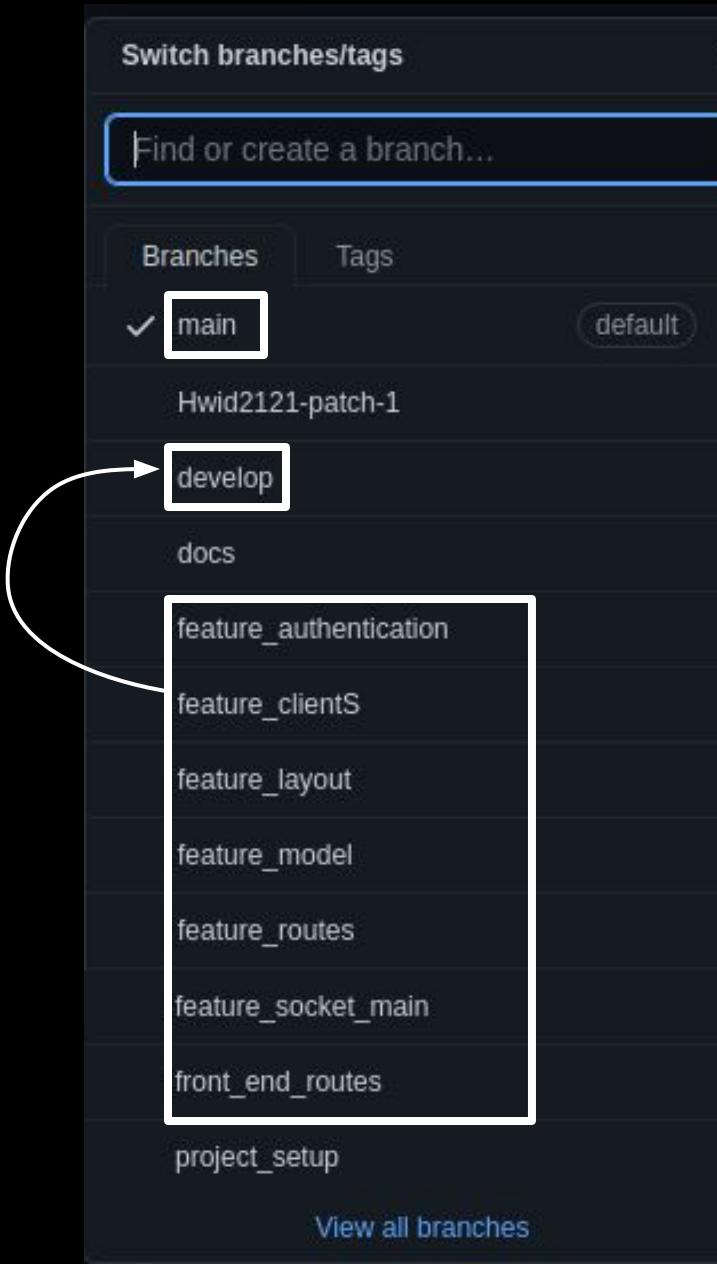


Socket / customer

project manager



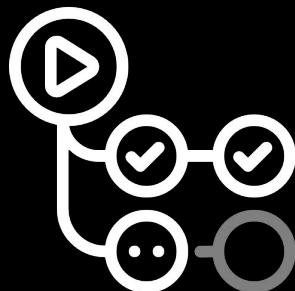
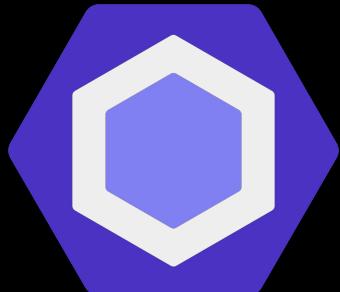
milestone releases



keeps track of
development



Tools



Actions

New workflow

All workflows

Continuous Integration

ESLint

Management

Caches

A dark-themed interface card titled "Actions". It includes a "New workflow" button, a "All workflows" tab, and a list of tools: Continuous Integration, ESLint, Management, and Caches.

Actions

- 1. Consistent code style**
- 2. Spot errors early**



frontend

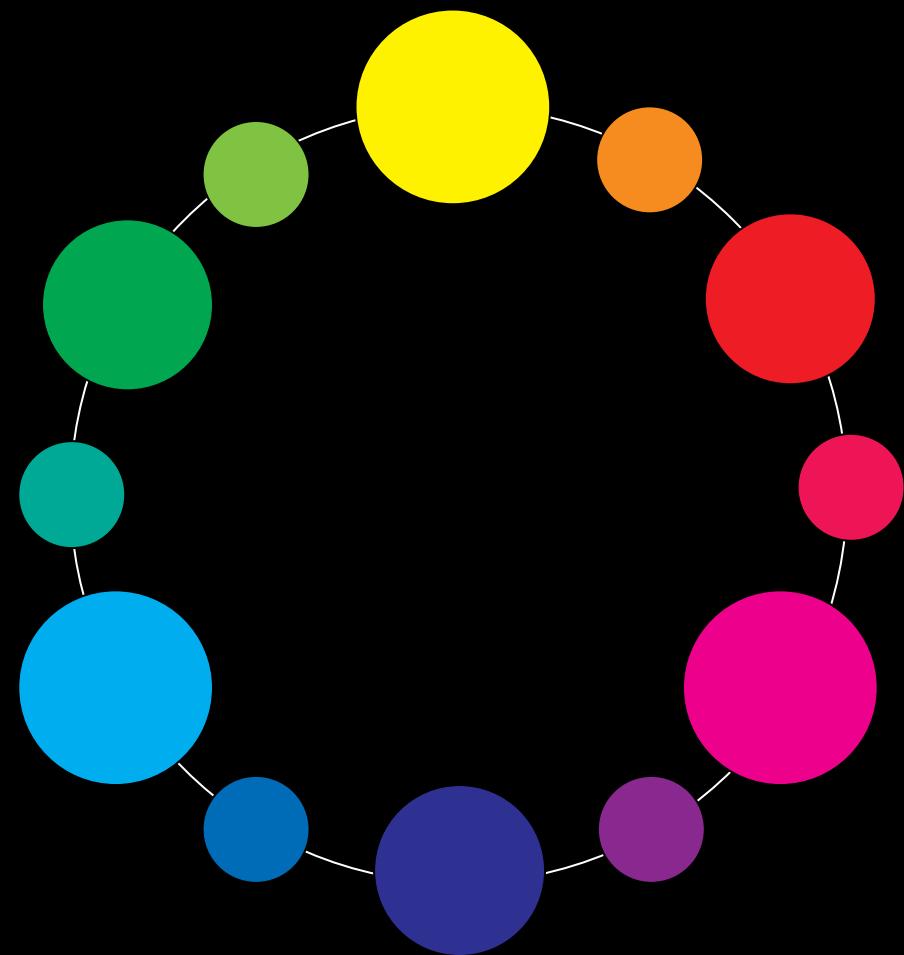


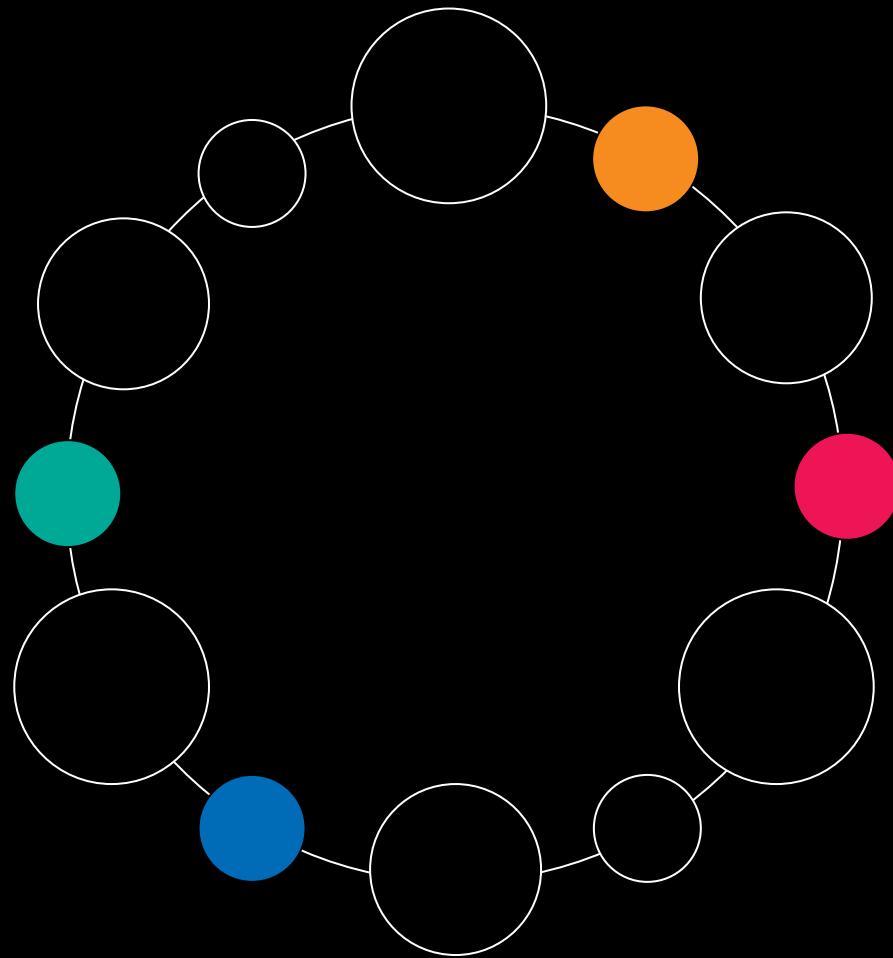


He just looks tired.



Look at this rat! He looks a little
bit sad :(









He just looks tired.



Look at this rat! He looks a little bit sad :(

themes

(to be added sometime in the future)

Already a user?

 Username Password[Log in](#)

Join HandShake now.

 Username E-mail Password Confirm password[Sign up](#)

HandShake



OGs @ USI

Search...



OGs @ USI



Pautasso

1



Mom

nico

oh sofi send the template code

15:39

michele

the prof said to avoid sending code through text

15:39

jef

bro this isn't a text, it's a Shake 🎉

15:39

take this

15:40

```
<section id="menu"> <header> <h1>HandShake</h1>  </header> <nav> <form id="search-bar" action=""> <input type="text" placeholder="Search..." /> <button>mag_right:</button> </form> </nav> <main> <div class="contact">  <h3>OGs @ USI</h3> <p></p> <p class="notification"></p> <p></p> </div> <div class="contact">  <h3>Pautasso</h3> <p></p> <p class="notification">1</p> <p></p> </div> <div class="contact">  <h3>Mom</h3> <p></p> <p class="notification"></p> <p></p> </div> </main> </section> <section id="chat"> <!-- contains all messages --> <header>  <h2>OGs @ USI</h2> </header> <main class="d-flex flex-column"> <!-- append messages inside here --> <div class="card other"> <div class="card-body"> <h5 class="card-title">michele</h5> <p class="card-text">Guys how is your work going? Remember we have to present on Monday so do you best.</p> </div> <p class="timestamp">14:27</p> </div> <br> <div>
```

Write something...



HandShake



OGs @ USI

Search...



OGs @ USI



Pautasso

1



Mom

loredana

good :D

14:28

jef

im doing the database lmao

14:30



sorry everyone i was baking a cake

15:38

nico

classic sofia

15:39

Write something...



Michele	Loredana	jeff	nico
Backend + Planning	Backend	Backend + database:	Backend + Customer
Authentication	Routes	<ul style="list-style-type: none"> - ER database schema to define entities and interaction in a entity-relation database 	
1. Planned with the team the project organization (work in progress)	Create and handle the routes	<ul style="list-style-type: none"> - conversion in a mongodb supported scheme for NOSQL document oriented database 	1. Socket scheme (on working) for the next milestone.
2. Organized the github repository and the project tools, with CI and code quality checks.	1. Decided the route structure with the team.	<ul style="list-style-type: none"> - defining the api for the interaction of the backend and the records stored through classes and then ORM 	2. Create and setting up the folder structure for the github repo.
3. Implemented an authentication and authorization system with JWT and refresh tokens.	2. Implemented the server routes.	<ul style="list-style-type: none"> - ORM Mongoose chosen to abstract database interaction with the collection, by defining entities as Models (through Schema entity declaration and definition with type support) 	3. Give feedback about frontend and about the backend solution and testing for issues.

A dark, moody photograph of a person from behind, wearing large over-ear headphones and a dark hoodie. They are seated at a desk, facing a computer monitor that displays several lines of colorful code. To the right, a desk lamp illuminates the workspace, and a small potted plant sits on the desk.

backend

authentication



JWT JSON Web Token

Access token is **inaccessible** by the client



JWT JSON Web Token

Access token is **inaccessible** by the client

Short token lifespan -> high security



JWT JSON Web Token

Access token is **inaccessible** by the client

Short token lifespan -> high security

Refreshed by refresh tokens



JWT JSON Web Token

Access token is **inaccessible** by the client

Short token lifespan -> high security

Refreshed by refresh tokens

Routes protected by a validation
middleware



routes



mongoose

elegant **mongodb** object modeling for **node.js**

[read the docs](#)

[discover plugins](#)



Star

25,040

Version 6.7.3



Fork

3,620

Let's face it, **writing MongoDB validation, casting and business logic boilerplate is a drag**. That's why we wrote Mongoose.

api

populate()



mongoose

elegant **mongodb** object modeling for **node.js**

[read the docs](#)

[discover plugins](#)



Star

25,040

Version 6.7.3



Fork

3,620

Let's face it, **writing MongoDB validation, casting and business logic boilerplate is a drag**. That's why we wrote Mongoose.

api

populate()





On the first connection
Login successfully

socket.join('All chats')



Retrieve contacts

Join in the chat
get_message



retrieve messages

Write a message
post /chat/:chatID



message io.to(chatID)



(more on this later)



database

ER database scheme

user.name and refresh_tokens.refresh_token is UNIQUE

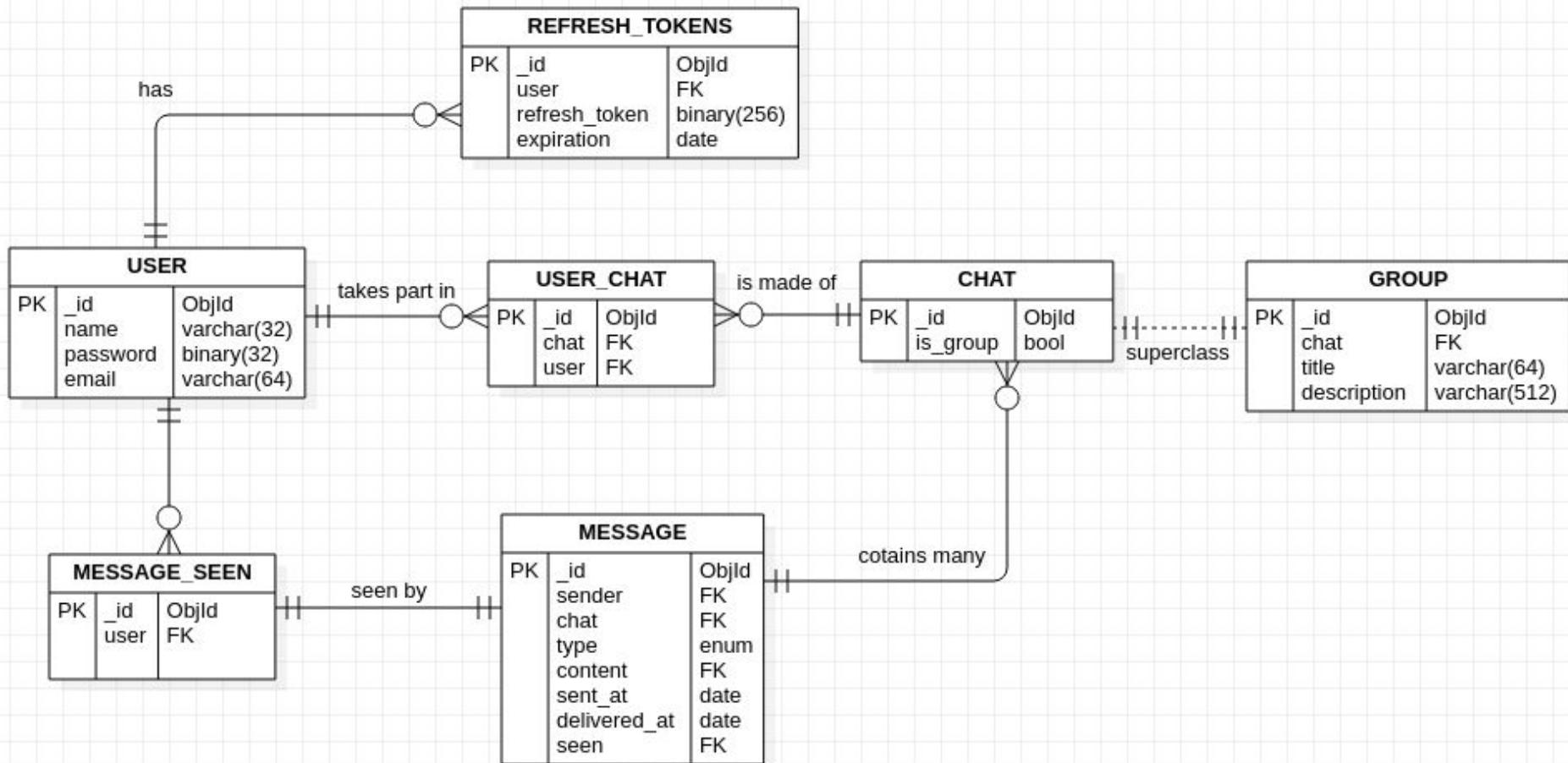
flag group

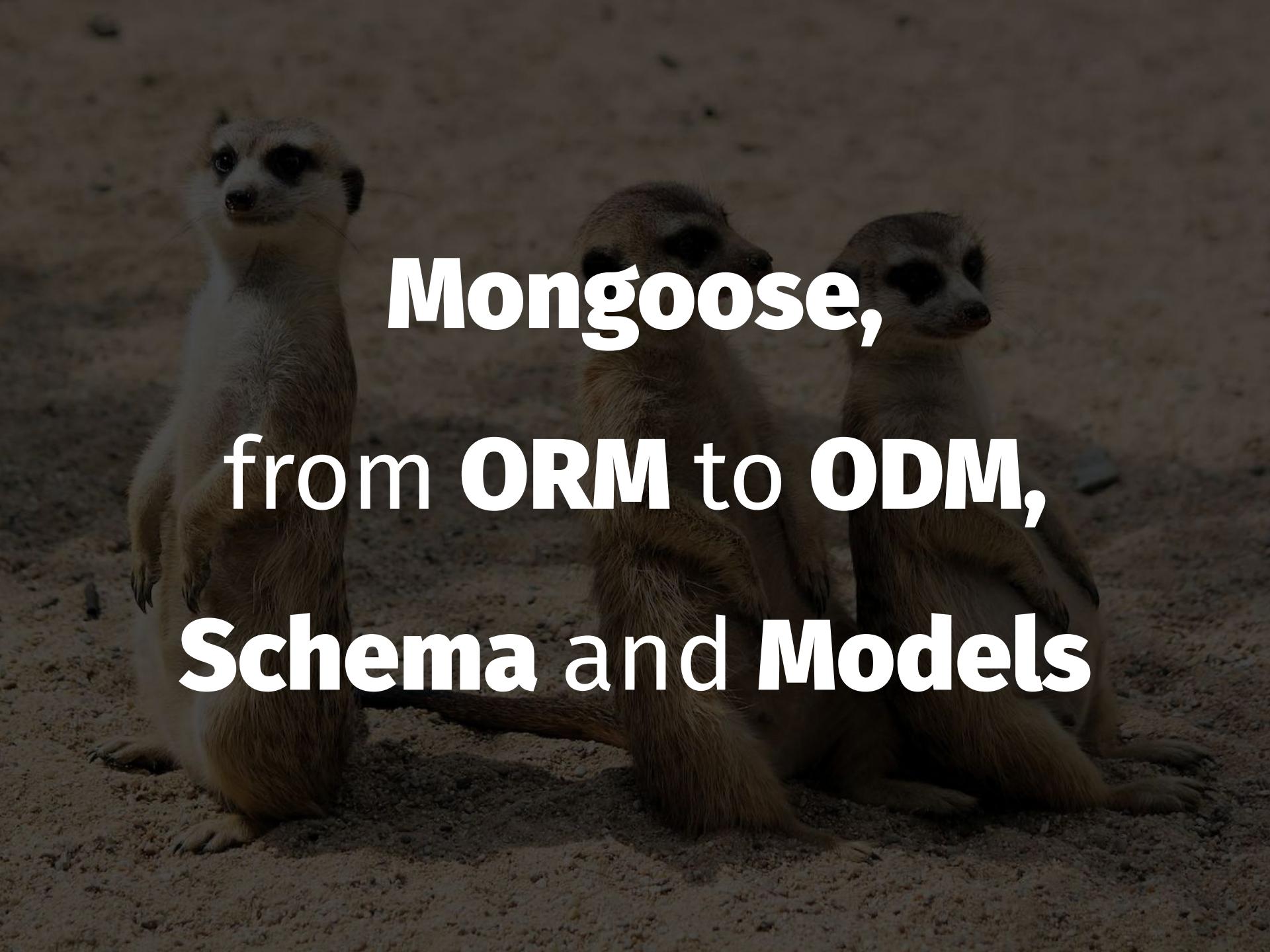
there is not table for profile pictures (users/groups), probably video.

the message type will contains a value for documents and a different value of pictures (that you can view directly in the app)

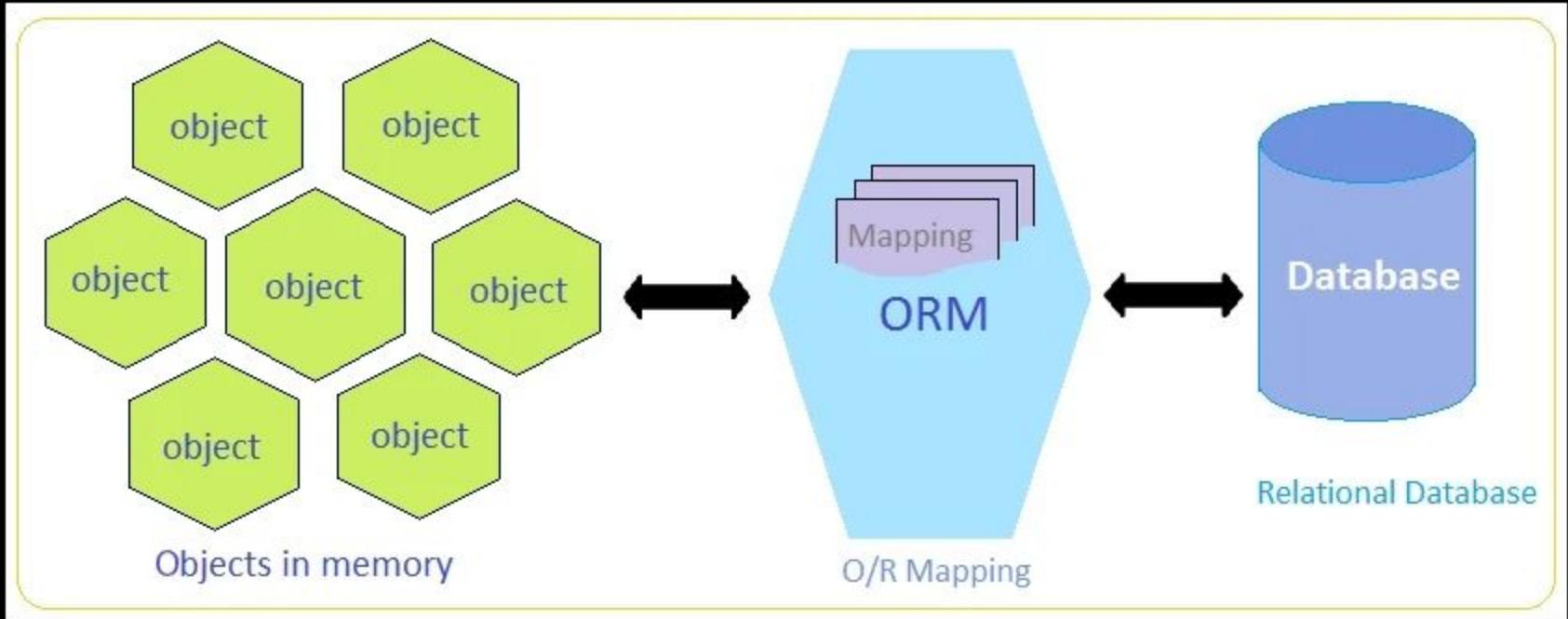
media: image, video, document, position, game

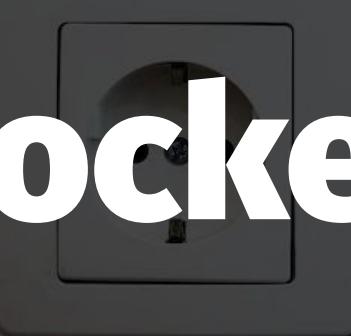
default profile picture for users, for groups



A photograph of two meerkats standing in a dry, sandy, and rocky landscape. One meerkat is in the foreground, facing left, while the other is slightly behind it, facing right. They have their characteristic black and tan fur patterns.

Mongoose, from ORM to ODM, Schema and Models





socket





On the first connection
Login successfully

socket.join('All chats')



Retrieve contacts

Join in the chat

get_message



retrieve messages

Write a message

post /chat/:chatID



message io.to(chatID)





what's next?

Goals for this project

Send texts

Goals for this project

Send texts

Support image / video / audio files

Goals for this project

Send texts

Support image / video / audio files

Support position sharing

Goals for this project

Send texts

Support image / video / audio files

Support position sharing

Add in-chat games

Goals for this project

Send texts

Support image / video / audio files

Support position sharing

Add in-chat games

Support calls and video calls (big **maybe**)

Goals for this project

Send texts

Support image / video / audio files

Support position sharing

Add in-chat games

Support calls and video calls (big **maybe**)

Customization with predefined and user themes

Goals for this project

Send texts

Support image / video / audio files

Support position sharing

Add in-chat games

Support calls and video calls (big **maybe**)

Customization with predefined and user themes

Deployment

Thank you!

frontend

themes
(to be added sometime in the future)

backend

authentication

routes

database

Dalle Rive Michele
d'Atri Sofia
De Filippo Loredana
Jeferson
Tafta Nicolò

See you at the next milestone!

HandShake OGs @ USI

nico
oh soft send the template code 15:39

michele
the pref said to avoid sending code through text 15:39

Pautasso 1

Mom

jef
bro this isn't a text, it's a Shake! 15:39

take this 15:40

Write something...

```
<section id="menu"> <header> <h1>HandShake</h1> <img class="pf" alt="pf" /> <header> <form id="search" action=""> <input type="text" placeholder="Search..." /> <span> <img alt="right arrow" /> </span> </form> <div class="chat"> <img alt="chat icon" /> <div> <img alt="pf" class="contact" /> <img alt="nico" class="pf" /> nico<br>oh soft send the template code<br>15:39</div> <div> <img alt="michele" class="contact" /> <img alt="michele" class="pf" /> michele<br>the pref said to avoid sending code through text<br>15:39</div> <div> <img alt="Pautasso" class="contact" /> <img alt="Pautasso" class="pf" /> Pautasso<br>1<br>15:39</div> <div> <img alt="Mom" class="contact" /> <img alt="Mom" class="pf" /> Mom<br>15:39</div> <div> <img alt="jef" class="contact" /> <img alt="jef" class="pf" /> jef<br>bro this isn't a text, it's a Shake!<br>15:39</div> <div> <img alt="nico" class="contact" /> <img alt="nico" class="pf" /> nico<br>15:40</div> <div> <img alt="michele" class="contact" /> <img alt="michele" class="pf" /> michele<br>guys how is your work going? Remember we have a presentation on Monday do you best!<br>15:40</div> <div> <img alt="Pautasso" class="contact" /> <img alt="Pautasso" class="pf" /> Pautasso<br>15:40</div> <div> <img alt="Mom" class="contact" /> <img alt="Mom" class="pf" /> Mom<br>15:40</div> <div> <img alt="jef" class="contact" /> <img alt="jef" class="pf" /> jef<br>what's next?<br>15:40</div>
```

socket

what's next?